**SAFETY DATA SHEET**
**FOR**
**THORN SMITH LABORATORIES**

## SECTION 1 - IDENTIFICATION

| | |
|---|---|
| Trade Name: | **Potassium Biphthalate** |
| Catalog Number: | 81-1045 (100g) / 81-1046 (500g) |
| Product Description: | Student Reference Standards and Reagent Chemicals |
| Manufacturer: | Auric Enterprises, Inc.<br>d/b/a Thorn Smith Laboratories |
| Address: | 7755 Narrow Gauge Road<br>Beulah, MI 49617 |
| Phone Number: | 231-882-4672 |
| SDS Number: | TSL-107 |

## SECTION 2 – HAZARDS IDENTIFICATION

**Classification of Substance or Mixture:** Not a hazardous substance or mixture.

**GHS Label Elements, including precautionary statements:** Not a hazardous substance or mixture.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** None

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Potassium Biphthalate

| | |
|---|---|
| Common Synonyms: | 1,2-Benzenedicarboxylic acid monopotassium salt; potassium hydrogen phthalate, potassium acid phthalate |
| Formula: | $KHC_8H_40_4$ |
| CAS No.: | 877-24-7 |
| Molecular Weight: | 204.22 g/mol |
| Purity: | 99% or higher |

## SECTION 4 – FIRST AID MEASURES

**Potential Acute Health Effects:** Slightly hazardous in case of skin and eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:** Repeated or prolonged exposure is not known to aggravate medical conditions.

**Eye Contact:** Do not rub eye(s); check for and remove contact lenses. Flush with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation persists, seek medical attention.

**Skin Contact:** Irritant. Remove any contaminated clothing. Wipe off excess from skin. Immediately wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Inhalation:** If a person breathes in large amounts, move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

## SECTION 5 – FIRE FIGHTING MEASURES

**Flammability:** May be combustible at high temperature
**Flash Points:** Not Applicable
**Auto-Ignition:** Not Applicable
**Flammable Limits:** N/A
**Products of Combustion:** Carbon oxides (CO, CO2). Some metallic oxides.
**Extinguishing Media:** Use extinguishing media appropriate to the surrounding fire. Do no use water jet.
**Fire Fighting Procedure:** Firefighters should wear self-contained breathing apparatus and protective clothing to prevent inhalation or contact with skin and eyes.
**Fire/Explosion Hazards:** Slight flammable to flammable in presence of open flames and sparks, of heat.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Utilize recommended protective clothing and equipment. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of in accordance to all Federal, State and Local environmental regulations.

## SECTION 7 – HANDLING AND STORAGE

**Storage Temperatures:** Do not store above 25ºC (77ºF).
**Storage:** Suitable for any general chemical storage area.
**Shelf Life:** Unlimited in tightly closed container.
**Special Sensitivity:** Isolate from incompatibles.
**Precautions to be taken in handling and storage:** Store in accordance with all local, state, and federal environmental regulations.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection (Specify Type):** None where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.
**Protective Gloves:** Wear protective gloves.
**Eye Protection:** Wear chemical safety glasses.
**Ventilation To Be Used:** Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.
__X__ Local Exhaust __X__ Mechanical (General) _____ Special
_____ Other (Specify)
**Other Protective Clothing and Equipment:** Wear clean body-covering clothing. Emergency showers and eye was stations should be available.
**Hygienic Work Practices:** Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** Solid cystals
**Color:** White
**Odor:** Odorless
**Molecular Weight:** 204.22 g/mole
**Specific Gravity(water = 1):** 1.636
**Boiling Point:** N/A
**Melting Point:** 297ºC (566.6ºF)
**Solubility in Water:** Soluble in cold water.
**Water Reactive:** No
**Vapor Pressure:** N/A
**Vapor Density (Air-1):** N/A
**Evaporation Rate ( -1):** N/A

## SECTION 10 – STABILITY AND REACTIVITY

**STABILITY:** __X__ Stable _____ Unstable
**Conditions to Avoid:** Heat. Stable under ordinary conditions of use and storage.
**Incompatibility (Materials to avoid):** Excess heat, dust generation, incompatible materials. Reacts with oxidizing agents.
**Hazardous Decomposition Products:** Not available
**HAZARDOUS POLYMERIZATION:** _____ May Occur __X__ Will Not Occur

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Routes of Exposure:** Ingestion. Inhalation.
**Toxicity Data:** Acute oral toxicity LD50 >3200 mg/kg (rat)
Acute dermal toxicity LD50 >1000 mg/kg (Guinea pig)
**Chronic Toxic Effects:** Not available.
**Acute Toxic Effects:** Inhalation of dust may cause irritation to upper respiratory tract and mucous membranes.
Large ingested doses my cause gastrointestinal irritation and pain.
May cause possible irritation to eyes and skin.
**Extremely Hazardous Substance:** No
**CERCLA Hazardous Substance:** No
**SARA 313 Toxic Chemicals:** No
**TSCA Inventory:** No

## *SECTION 12 – ECOLOGICAL INFORMATION*

Long term degradation products may arise.

## *SECTION 13 – DISPOSAL CONSIDERATIONS*

Dispose of in accordance with all applicable local, state and federal environmental regulations.

## *SECTION 14 – TRANSPORTATION INFORMATION*

Domestic (D.O.T.)
Proper Shipping Name: Chemicals, n.o.s.

International (T.M.O.)
Proper Shipping Name: Chemicals, n.o.s.

Air (I.C.A.O.)
Proper Shipping Name: Chemicals, n.o.s.

## *SECTION 15 – REGULATORY INFORMATION*

**Pennsylvania Right to Know Components:**

Potassium hydrogen phthalate

**New Jersey Right to Know Components:**

Potassium hydrogen phthalate

## SECTION 16 – OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| NFPA Rating: | Health: 0 | Flammability: 0 | Reactivity: 0 | |
| HMIS Rating: | Health: 1 | Fire: 0 | Reactivity: 0 | Protection: C |

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